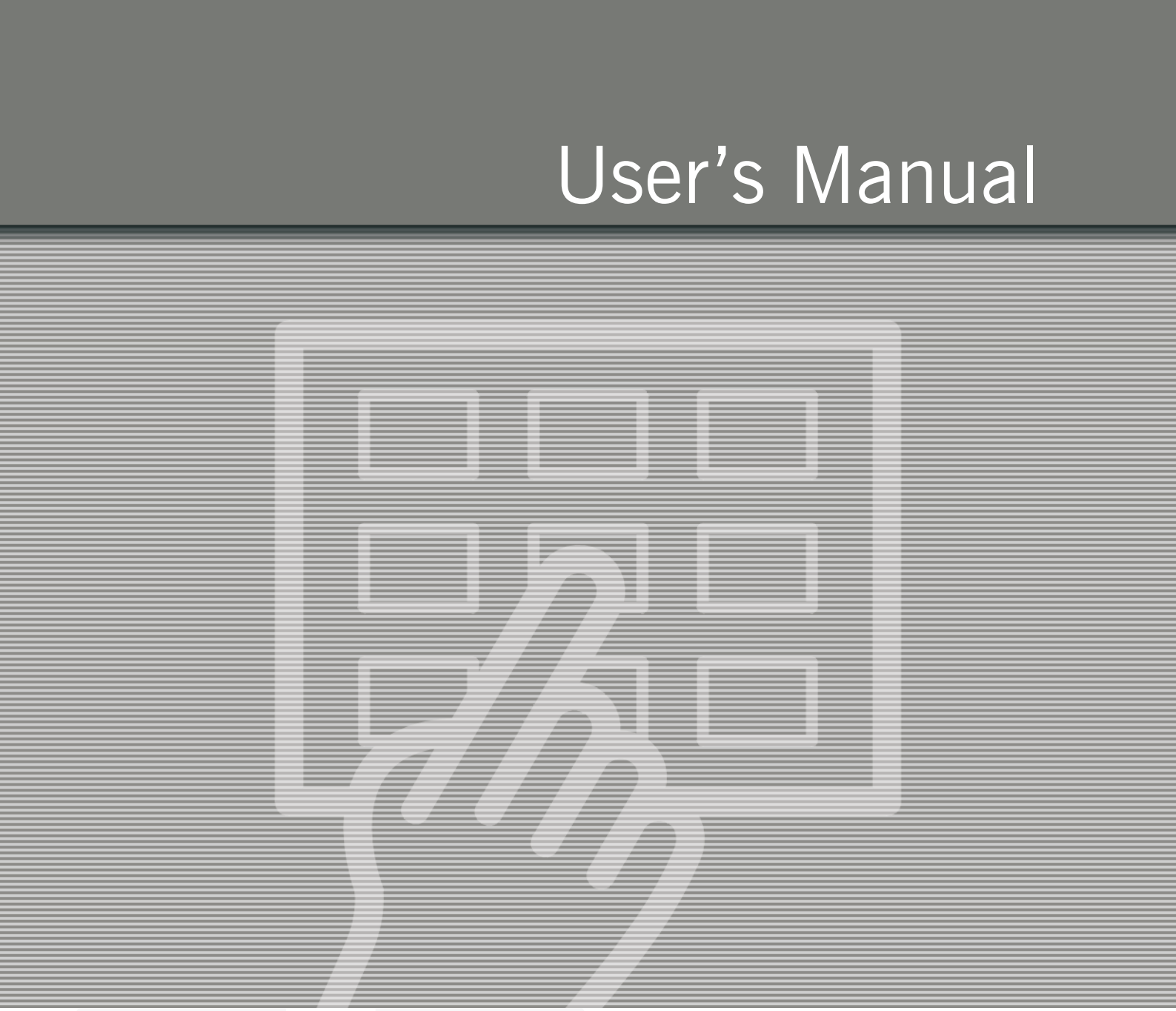
User's Manual



CONCEPT Processor
305 DW / 405 DW / 505 DW
505 DW XP

GLUNZ & JENSEN
DEGRAF

User's Manual

CONCEPT Processor
305 DW / 405 DW / 505 DW / 505 DW XP

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Always read the *Safety Instruction Manual part No 21741* before installing or operating the equipment.

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Part 1: General information

About this manual

Intended use of this manual

This manual describes the common use procedures of the processor. It is intended for the daily user and should be kept with the equipment for reference at all times.

Reservations

- This manual was written and illustrated using the best possible information available at the time of publication.
- Any differences between this manual and the equipment reflect improvements introduced after the publication of the manual.
- Changes, technical inaccuracies and typographic errors will be corrected in subsequent editions.
- As a part of our policy of continuous improvement, we reserve the right to alter design and specifications without further notice.

Notes, cautions, and warnings !

Throughout the manual notes, cautions, and warnings are written in bold like the example below:

Before turning the unit on make sure that the working area around the unit is clean and free for easy movement.

Symbol	Meaning	Explanation
	Note	The operator should observe and/or act according to the information in order to obtain the best possible function of the equipment.
	Caution	The operator must observe and/or act according to the information in order to avoid any mechanical or electrical damage to the equipment.
	Warning	The operator must observe and/or act according to the information in order to avoid any personal injury.

Unintended use of the equipment

Degraf S.p.A. does not take any responsibility for any damage or accidents caused by unintended use of the equipment:

- It is absolutely prohibited to make any modifications, electrical nor mechanical, of the equipment. If however this prohibition is disregarded, Degraf's warranty will no longer apply.

Intended use of the equipment

- This unit is a part of a full range dedicated for the treatment of flexographic printing plates. This range includes exposure unit, processor, dryer and light finisher.
- This unit is designed to washout of solvent washable printing plates with dedicated digital section to remove the black layer of digital plates.
- All the other steps of the process are made with the other equipment of the range.
- This unit is designed to work with solvent and has been tested with conventional product. Always ask your dealer before trying to change type of solvent. This may result in major damages and safety issues. This unit has not been designed as an explosion proof unit.

Installation

- Never install the unit in explosive environments.
- It is the responsibility of the owner and operator/s of this unit that the installation is made in accordance with local regulations, and by engineers authorized to carry out plumbing and electrical installations.
- Installation, service and repair must be performed only by Service Technicians who are trained in servicing the equipment.
- The manufacturer cannot be held responsible for any damage caused by incorrect installation of this unit.
- The unit is intended for installation in a restricted access location only.

"End of lifetime" disposal

The equipment is designed for easy disassembling. All disposal of parts from the machine must be made according to local regulations.

Service assistance

- If help is needed to correct any problem with the equipment, please contact your supplier.

Part 2: Daily use

General

The unit is designed to wash and clean printing plates after the exposure process.

The unit is divided in the following sections:

- **Entrance table and control panel** - allow the operator to place the plate on the unit and to select the correct parameters to process it.
- **Digital washout section** - removes the black layer of digital plate to prevent the contamination of the main washout tank.
- **Washout section** - provides high quality and even washout of the plates.
- **Cleaning section** - ensures the cleaning and wiping of the plate.
- **Exit section**.

This processor is equipped with the graphical finger touch display which ensures very easy control.

SAFETY WARNINGS!

To use this unit safely, it is necessary that operators and maintenance people follow the safety instructions and safety cautions and warnings specified in the manuals.

The unit is equipped with emergency switches which allow the operators to stop the unit in case of emergency.

Make sure that the risk or the problem has been eliminated before restoring the power on the unit.

To release the emergency switches, turn them clockwise. The unit has to be restarted following the "Initial operation of the unit" later in this manual.

For the safety of operators, the unit is equipped with interlock switches for the opening of the top covers during operation, for overheating and for safety level switches.

Initial operation of the unit

Make sure the room temperature is between 17 and 25°C (63 and 77°F) and relative humidity between 40 and 60%.

Before turning the unit on make sure that the working area around the unit is clean and free for easy movement.

Check if there are any leaks of solvent and all the required supplies and connections (power supply, compressed air and exhaust).

Check that all emergency stop buttons are released. If they are not, release them by turning them clockwise.

- Turn on the main switch located at the front of the machine (right side).
- The unit is now displaying the standby screen.

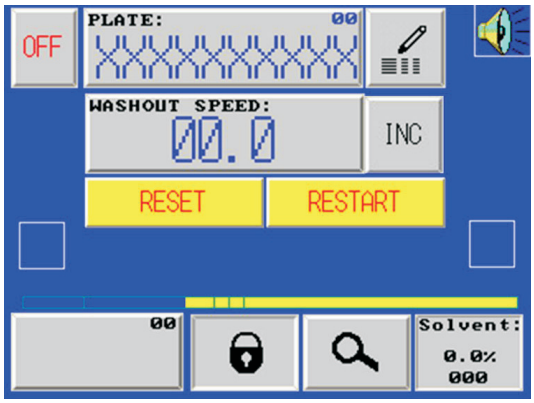
To switch on the unit press ON/OFF button located below the control panel of the unit.

- Then two different screens can be displayed:

The processor is running an automatic cleaning cycle at the switch on.

This screen disappears as soon as the cleaning cycle is finished.

To cancel the cleaning cycle at the switch on press PERFORMING CLEANING CYCLE. PRESS TO STOP. and confirm.



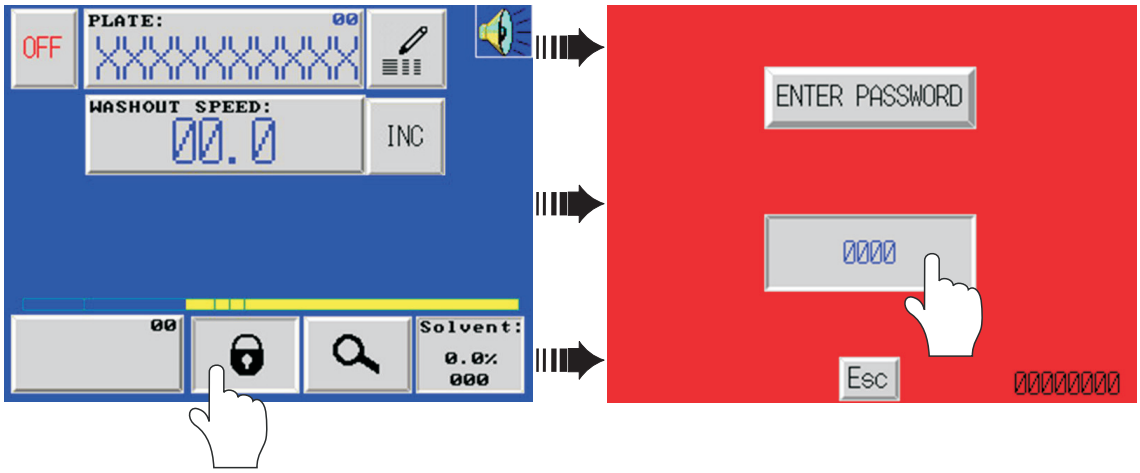
The processor has been stopped with at least one plate in process.

Press RESET and confirm to reset all ongoing cycles.

Press RESTART and confirm to restart the processor at the same status as at the power off. This gives the possibility to continue the process of a plate remaining in the unit.

Processor configuration

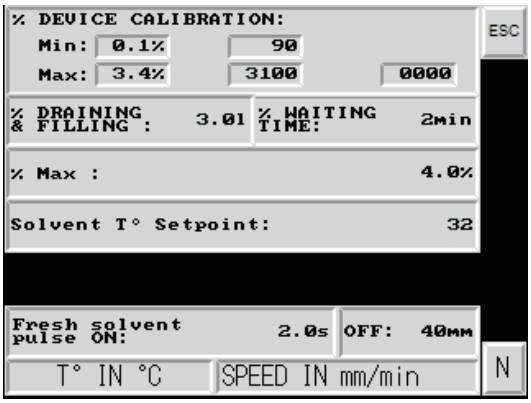
The user has the possibility to access different menus by typing a password.



Password	Function
1309	Allows access to temperature/rinse settings.
1212	Unlocks access to plate parameters.
1313	Locks access to plate parameters. The button will disappear.
1969	Allows access to manual functions.

Temperature/rinse settings

By entering password "1309" following screen will be displayed. From this screen it is possible to change the rinse timing and solvent temperature.



Page 1

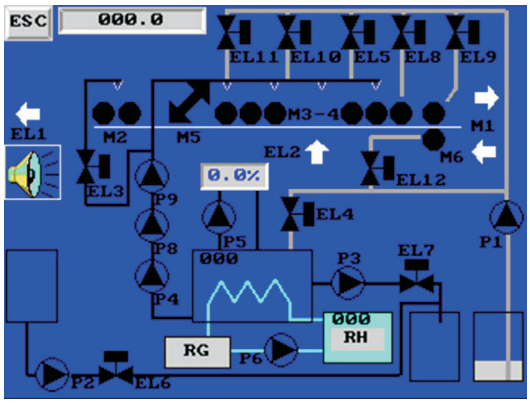
Display overview	Description
ESC	Allows to exit this screen and to return to the main screen.
N	Allows to switch to the next page.
% Max : 4.0%	By pressing this button it is possible to set maximum solid content for operation. *Factory setting - 4.0%*
SPEED IN mm/min	By pressing this button it is possible to choose speed unit - [mm/min] or [Inches/min]. *Factory setting - mm/min*
T° IN °C	By pressing this button it is possible to choose temperature unit - [°C] or [°F]. *Factory setting - °C*
Solvent T° Setpoint: 32	By pressing this button it is possible to set temperature of solvent (this depends on used solvent). *Factory setting - 32 [°C]*

All other functions available from this screen can be used by Service Technician or trained and skilled people only. Incorrect manipulation may result in poor plate quality, damage of the processor or personal injury.

Manual functions

All available functions in this section should be accessed by Service Technician or trained and skilled people only. Incorrect manipulation may result in poor plate quality, damage of the processor or personal injury.

By entering password "1969" following screen will be displayed.



- To start desired function simply press its graphic symbol on the screen. First touch of the symbol starts the function, second touch stops it.

It is not possible to start the pump if the associated solenoid valves have not been opened before. It is to prevent overpressure and high temperature in pump itself (no circulation of solvent). If the solenoid valves are closed together with the pump running, the pump will stop automatically.

- To change the speed of the transport chain, press 000.0 and enter new value. The new value is used only in the manual function and does not affect the speed parameters stored for plate production.
- It is possible to run the transport chain forwards or backwards by pressing → or ←.

Remember that running the transport chain backwards may cause a damage of the processor if no attention is paid to the position of the transport bar.

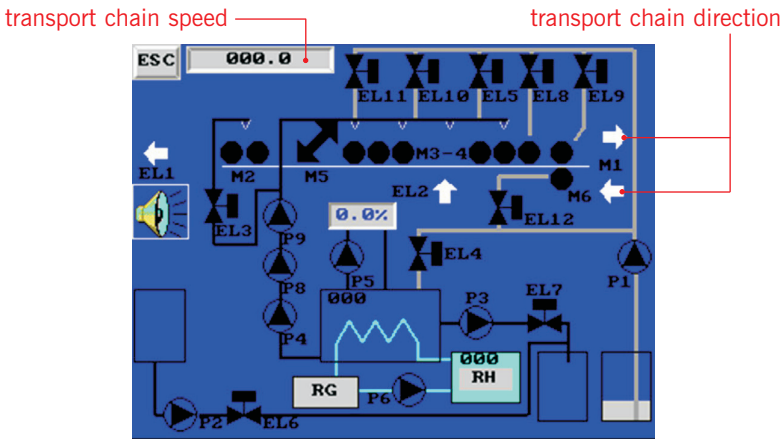
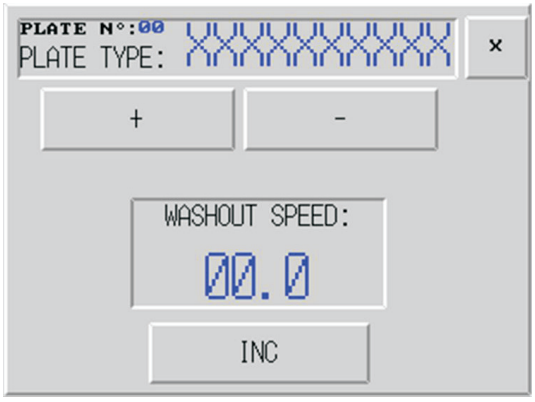


Plate parameters

It is possible to store 25 plates (channels 0 - 24) with their washout speed and time (depending on the model).

- By pressing button following plate parameters screen is displayed (this button is available on the main screen as well as on the plate selection screen).



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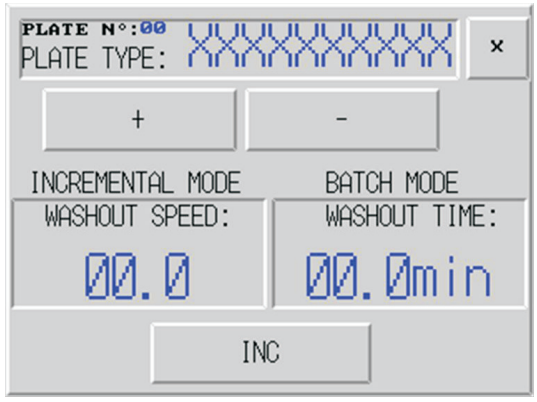
These models can run only incremental mode.



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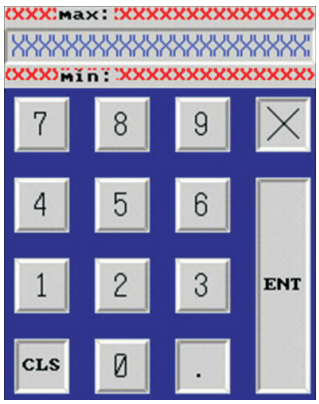
This model can run both incremental and batch mode. By running incremental mode it is used the washout speed and by running batch mode it is used the washout time.

By pressing button it can be chosen incremental or batch mode.

- For each stored channel it is possible to modify the name of the plate as well as the dedicated parameters.
- It is possible to scroll up or down the channels by pressing or .
- When the required channel is displayed, press to change the plate name or one of the two stored times.
- Then an alphanumeric keyboard for the plate name or a numeric keyboard for the washout speed/time will appear.

alphanumeric keyboard

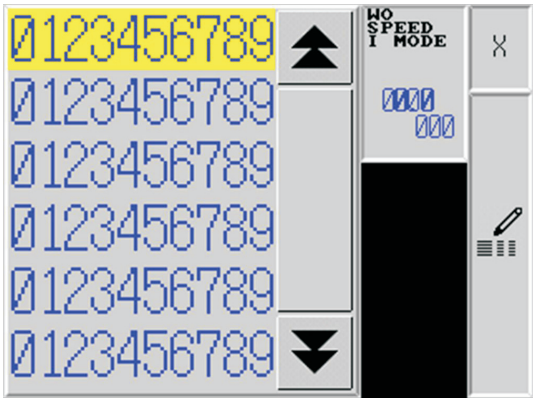


numeric keyboard

- When the proper name/speed/time is typed, press "ENT" to confirm the choice. Not doing this may result in corrupted values memorisation.

Plate selection

- Press to access the plate selection screen.



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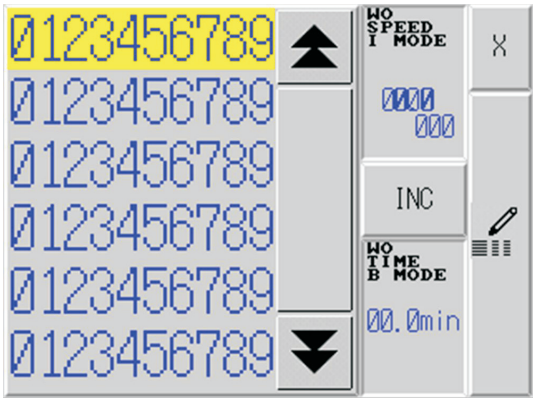

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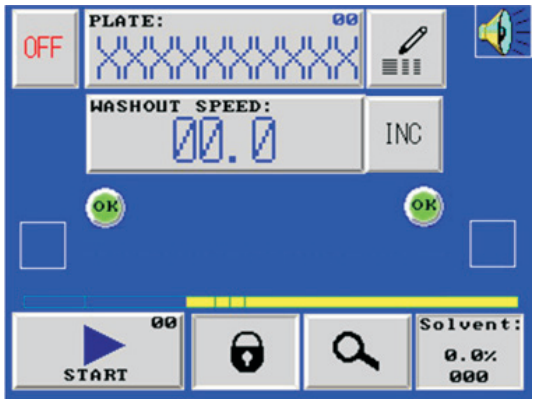
- To select the plate to produce, scroll up or down until required plate name is displayed. Press required plate name to highlight it. Then it is possible to check the plate parameters on the right side of the screen to ensure that the correct plate is selected.
- If the plate parameters are not correct, press to access to the plate parameters screen.
- When the correct plate with the correct parameters is selected, press to turn back to the main screen. The parameters are automatically transferred in the concerned section and the processor is now ready to start a process cycle.

Start of a washout cycle

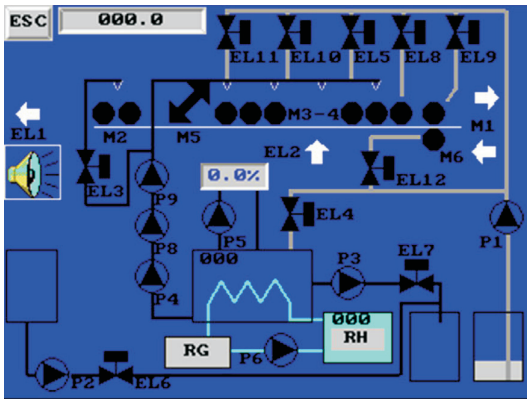
- Check that all parameters are correct.
- Open the entrance cover.
- Place the transport bar on the entrance table and ensure that it is well engaged in the locking devices located on each side (2 "OK" signs on the screen).



- Fix the plate on the middle of the transport bar to allow the plate length sensor (located in the middle of the entrance section) to detect the plate properly.
- Close the entrance cover.
- Press to start the process cycle. This button is then flashing green till the plate is completely entered in the processor.

Process visualisation

During a washout it is possible to visualize the functions that are active by pressing 🔍. All functions running are coloured in green.



Processing plate after plate

- It is possible to run several plates in the same time in the processor if the washout speeds are the same. In this case, place the plate on the transport bar on the entrance and press START. The processor will automatically feed the plate in as soon as possible.
- If the washout speed of the plates is different, place the plate on the transport bar on the entrance and press START. The processor will automatically feed the plate in as soon as the previous plate is out of the cleaning section.

The processor can process a maximum of 3 plates in the same time.

The sensor which measure the length of the plate is located in the middle of the processor. Make sure that plate is placed in front of this sensor.

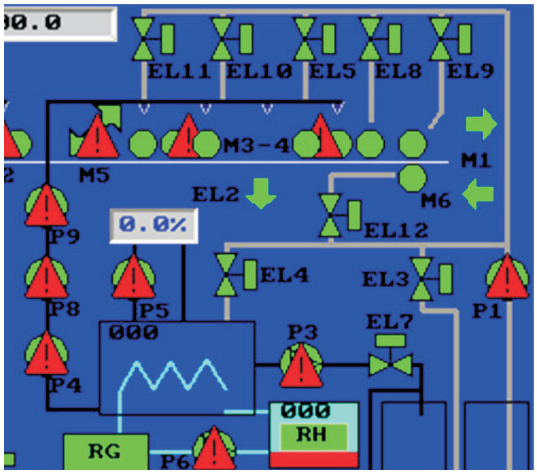
Alarms

Two different kinds of alarm can appear on the screen:

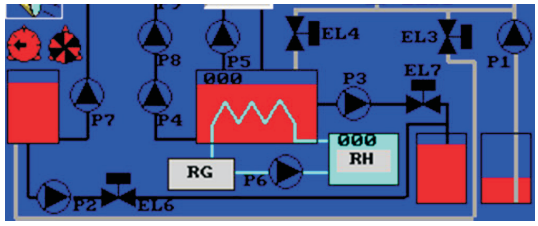
- Process alarm - with flashing and intermittent sound.
- Service alarm - with flashing.

To identify which process alarm is on, press the flashing sign to display the dynamic synoptic screen.

A graphic alarm sign indicates the type of alarm (please refer to following examples):



Problem on a circuit breaker for the pumps or motors. The warning sign is flashing on the motor or the pump.



Levels problem on the different solvent tanks. The level sign is flashing and indicating a problem in a tank (low or high level).

Specific alarms

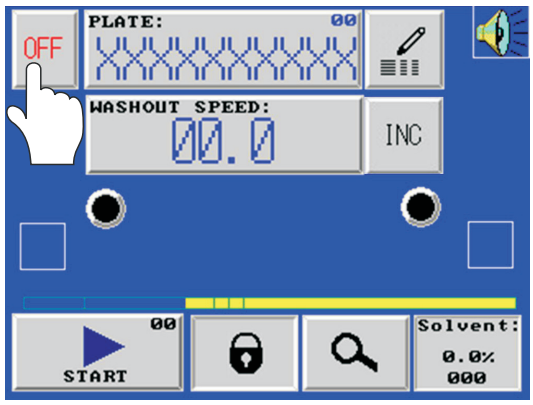
In addition to the motor/pump alarm and level alarms, specific alarm can be displayed:

Symbol	Description
	One of the top panels is open.
	Compressed air is too low.
	Exhaust of the processor is too low.

It is possible to stop the buzzer by pressing . The buzzer will automatically restart if another alarm occurs.

Switching off the processor

In order to allow the processor to perform the cleaning cycle when the processor is switched off, please use the "OFF" button located on the main screen. Press it and confirm in order to start the cleaning cycle. When finished, the processor will switch off automatically.



The cleaning cycle performs the cleaning of all the brushes using fresh solvent.